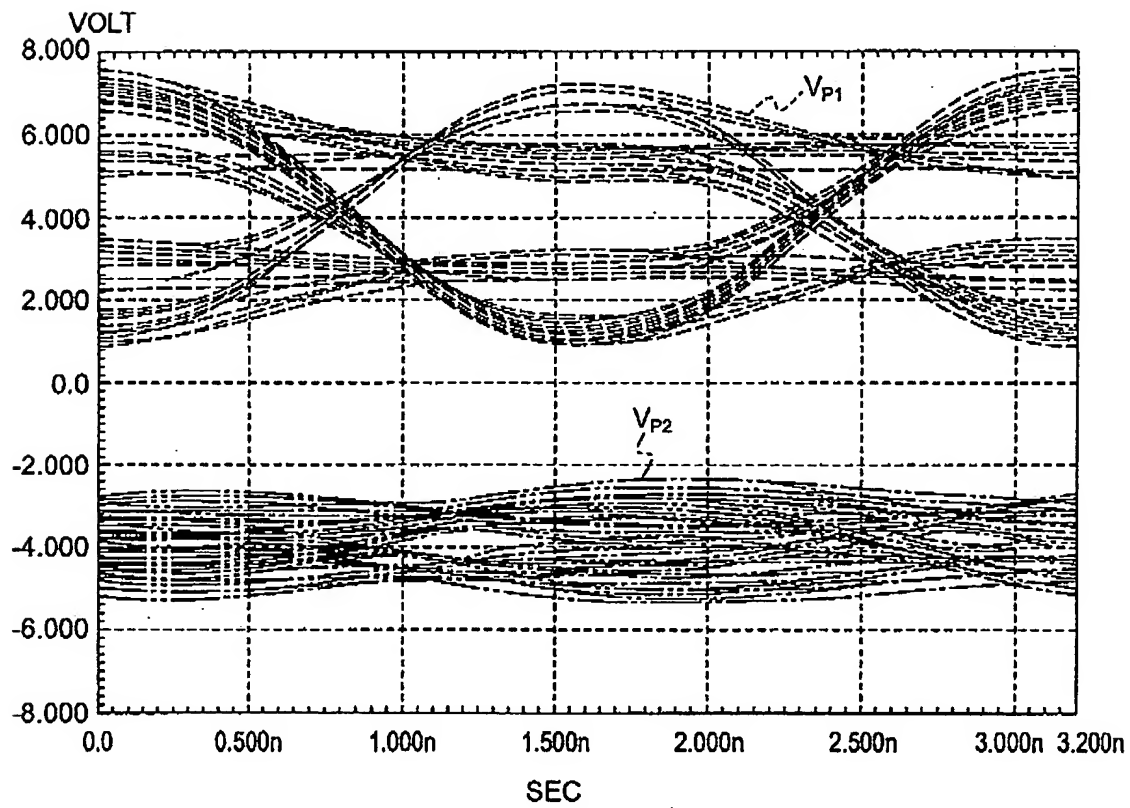


The diagram illustrates a test system for a cable. A voltage source 101 is connected to a replica filter 111. The replica filter 111 contains a series resistor 113 with value $=R_{REP}$ and a shunt branch consisting of a resistor 114 with value $=R_D$ in series with an inductor 115 with value $=Z_L'$. The output of the replica filter is connected to a voltage-to-current converter 102. The output of 102 is connected to a resistor 15 with value $R_D = 50 \Omega$ and a node A. Node A is also connected to a resistor 16 with value $R_{REP} = 200 \Omega$ and a node B. Node B is connected to a second voltage-to-current converter 112. The output of 112 is connected to a receive filter 26. The receive filter 26 has an input voltage V_6 and a power measurement point P_2 . The output of the receive filter is connected to a cable 22 with impedance Z_L . The cable 22 is connected to a transformer 21, which is connected to a terminator 23. A power measurement point P_1 is located between the transformer 21 and the cable 22, with voltage V_{P1} . The entire system is connected to ground.

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FIG. 3



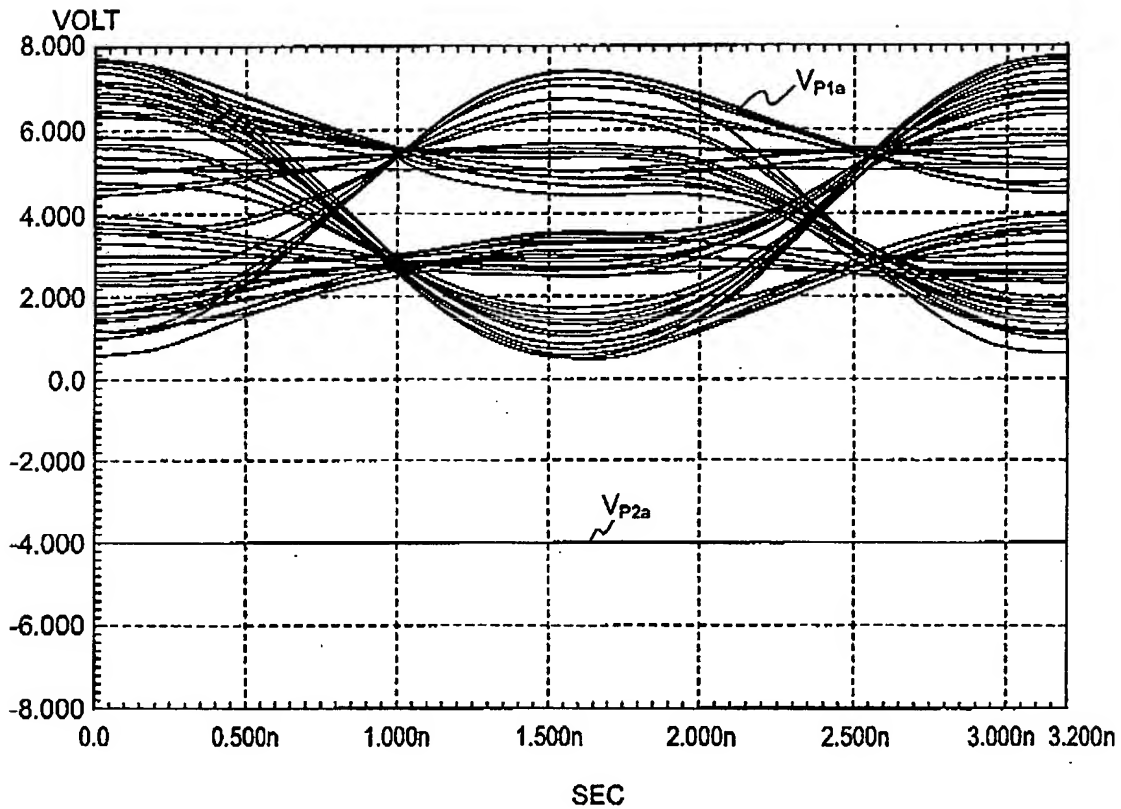
[LINE] [NAME]

— V.6 : 2-> V_{P2}
- - - V.8 : 2-> V_{P1}

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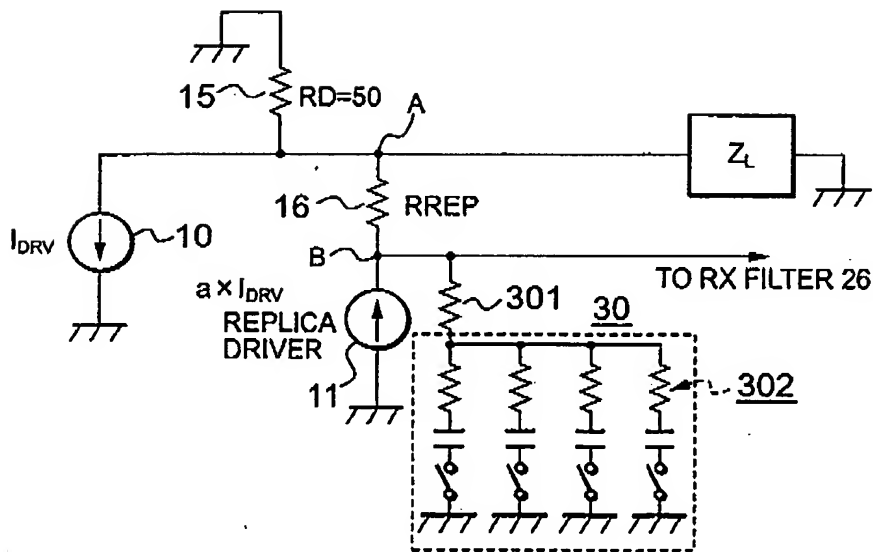
FIG. 4



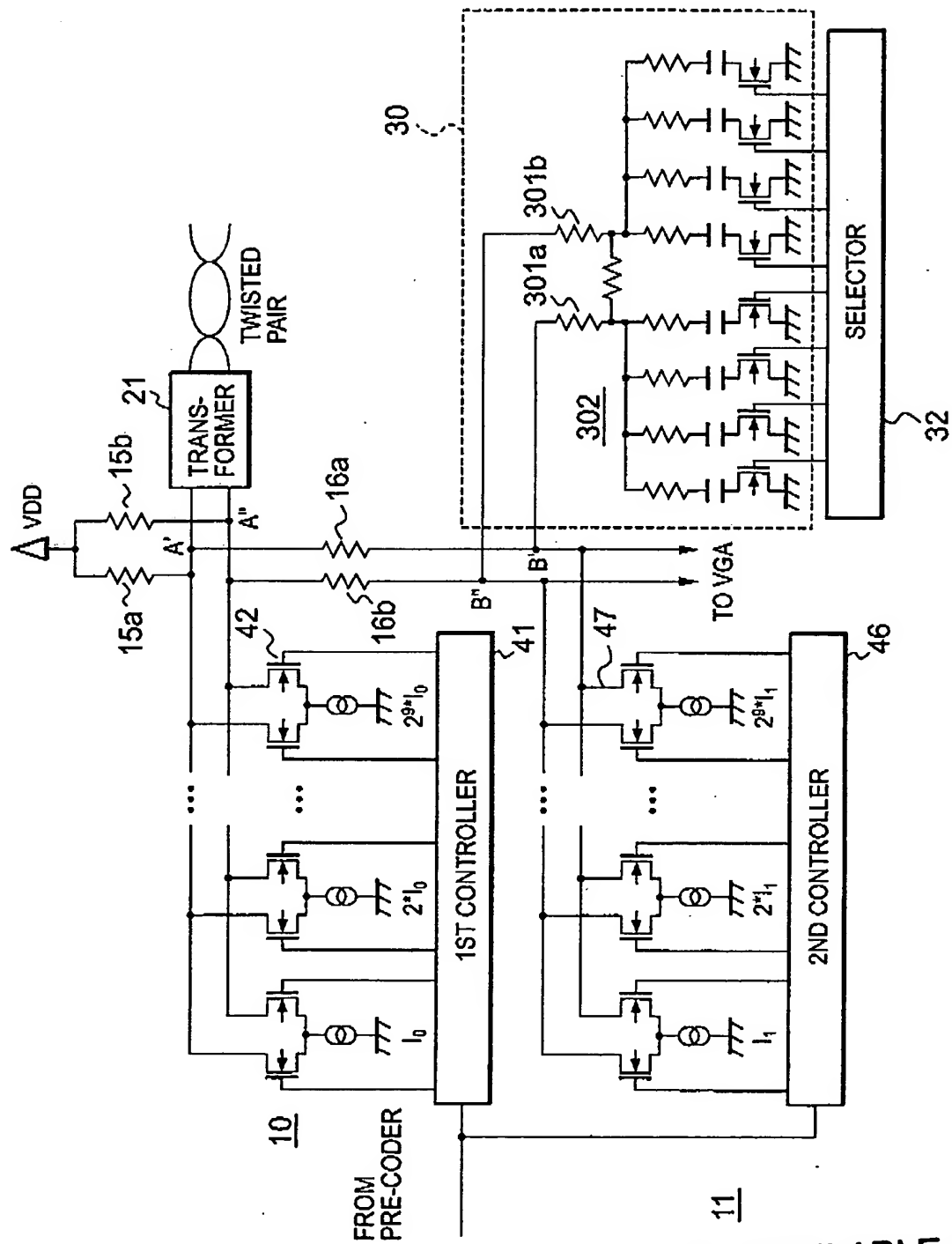
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FIG. 5

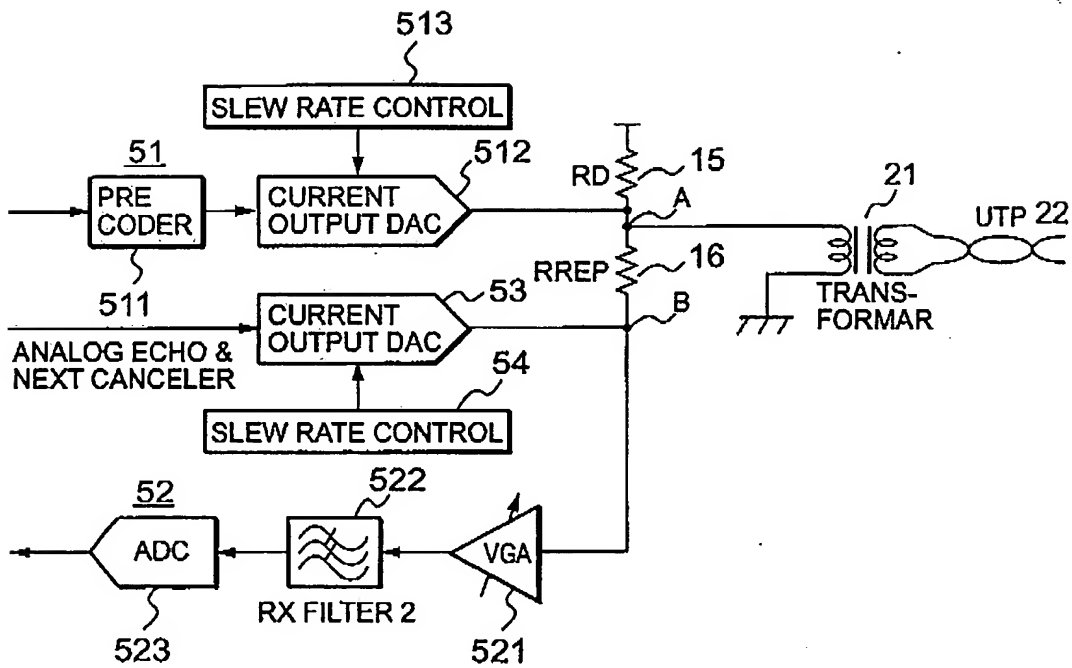


66



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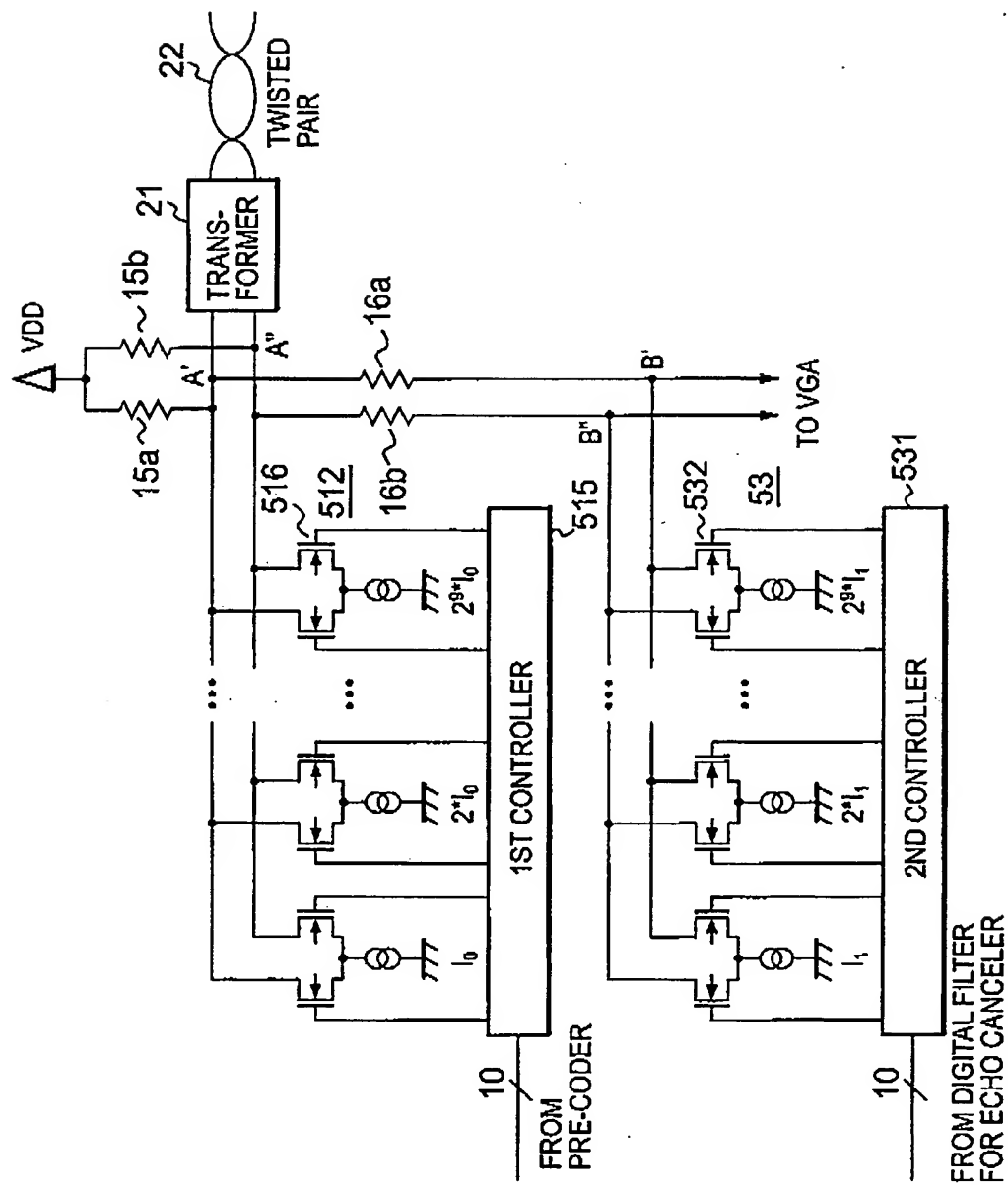
FIG. 7



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FIG. 8



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FIG. 9A

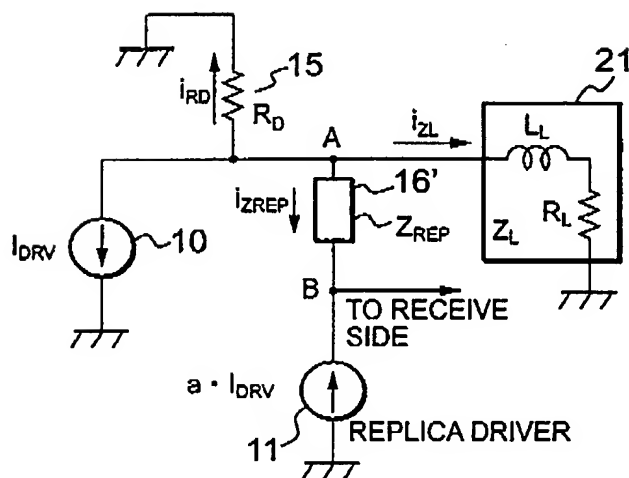
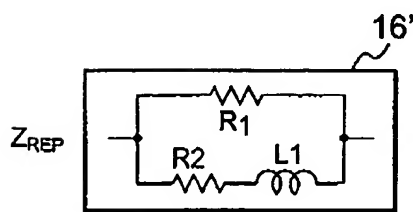


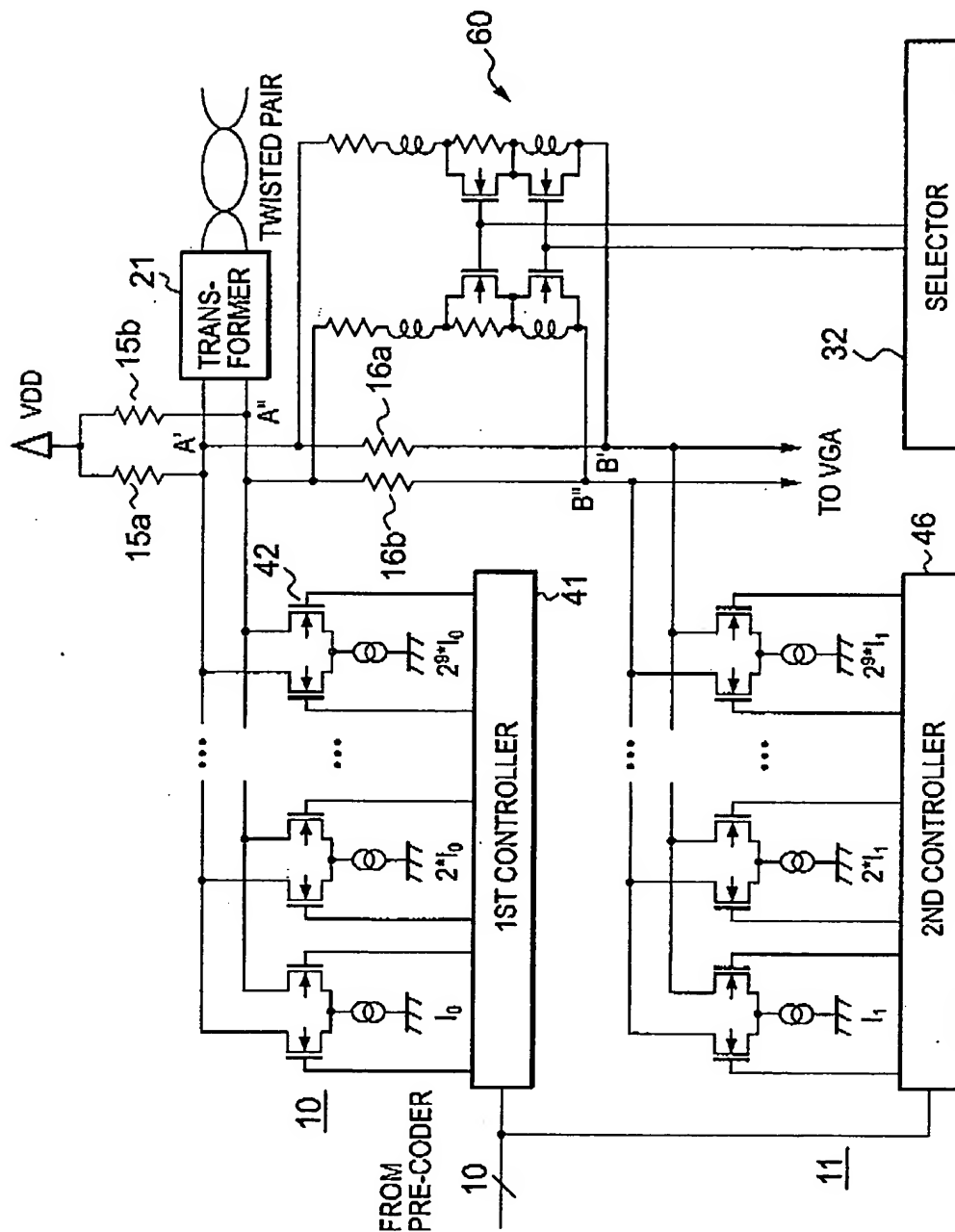
FIG. 9B



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FIG. 10



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